

AUTHORJE

TITLE:

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of Magnesite-Chromite Arch Bricks Technology and Quality (Sostoyaniye tekhnologii i kachestvo magnezitokhromitovogo

svodovogo kirpicha)

PERIODICAL:

Ogneupory, 1958, Nr 10, pp. 454-461 (USSR)

ABSTRACT:

At the beginning of 1950, "Gisogneupor" hade a survey of the Zaporozh'ye, Chasov Yar, Panteleymonovka, "Magnezit" plants ent of the Cura takiy actually icheskiy kombinet (Kuznetsk In all of these plants magnesite-Metallurgical Planc). shromity bricks (no produced following approximately the same process. The chemical composition of the raw material is given in table 1 and the composition of the layers in table 2. The grain sizes of the initial materials in the respective plants are shown in tables 3 and 3a and the specific gravity of the bricks in table 4. Table 5 contains information on the burning of magnesite-chromite bricks in tunnel kilns and table 6 in

gas-chamber kilns. The characteristic properties of these bricks for the year 1957 may be seen in table 8. The proper-

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Technology and Quality of Magnesite-Chromite SOV/131-58-10-4/11 Arch Bricks

ties of arch bricks have to be improved and their output must be increased.

There are 8 tables.

ASSOCIATION: Gisogneupor

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NEEDS OF THE PERSON OF THE PER 15(6) SOV/131-58-11-5/9 Kirillova, N. N., Nazarov, M. P., Radina, Yu. V. AUTHORS: TITLE: The Performance of Refractory Katerials Open-Hearth Furnaces (Sluzba ogneuporov v martenovskikh pechakh) PERIODICAL: Ogneupory, 1958, Nr 11, pp 509-516 (USSR) ABSTRACT: Magnesite-chromite vault bricks are produced in the following plants: "Magnezit", Zaporozhskiy, Chasov-Yarskiy imeni Ordzhonikidze, Panteleymonovskiy imeni K. Marks, as well as in the Department for Refractor Materials of the Kuznetskiy Metallurgic Kombinet (KMK). A description of the bricks is given in table 1. The magnesite-chromite vaults were constructed according to a design by Frenkel' (UNIIO). The highest degree of stability with the use of oxygen was obtained in the furnaces of the "Zaporozhstal" Plant and of the Nizhne-Tagil'skiy Metallurgic Kombinat (Table 2). Table 3 shows the performance of open-hearth furnaces of equal capacity with magnesite-chromite vaults. In another table data concerning equal furnaces of the NTMK are listed. In recent years unburned magnesite-chromite bricks were used for open-hearth furnaces of low capacity Card 1/3 (Table 4). A description of port bricks is given in table 5.

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The Performance of Refractor Haterials in Open-Hearth Furnaces

Table 6 shows the stability of the upper rows of the ports of air regenerators. The performances of ports and open-hearth furnaces in the MMK are described in table 7. Another table gives the consumption of refractory material per ton or steel. Conclusions: for furnaces operating intensively, as well as those in which metal alloys are melted, the vaults should be built of bricks containing periclase-spinellide or of high density magnesite-chromite bricks burnt at high temperature, respectively, according to the method of the UNIIO; magnesitechromite brickwork is suitable for the lining surface of the slag-pocket vaults and the dinas walls of the slag pockets; for the brickwork of the upper furnace ports, where there are oxygen and very high temperatures, forsterite bricks are recommended; in other furnaces it is advisable to use nighly aluminiferous and dinas-chromite bricks; the quality of the magnesite-chromite vault bricks must be improved; the density of the forsterite port bricks must be increased. There are 9 tables.

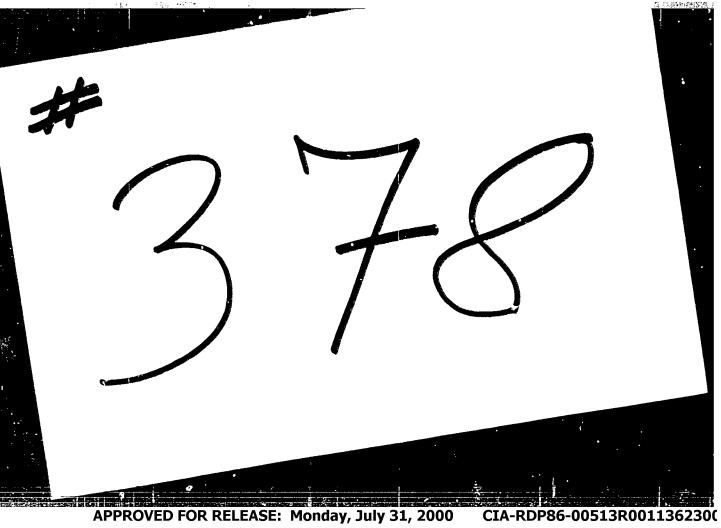
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The Performance of Refractor Materials in Open-Hearth Furnaces
ASSOCIATION: Gisogneupor

Card 3/3

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Investigating the dielectric permeatiligy of gypeus during dehydration processes. Trudy RISI no.15:109-119 '58, (MIRA 13:6) (Gypsum--Testing)



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